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FUJIWARA MASASHIGE(54) METHOD FOR TREATING DUST IN BLEED GAS FROM CEMENT
MANUFACTURING PLANT

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a particular method that washes with water and treats dust in bleed gas from a baking furnace which dust contains a specific quantity of sulfur entrained by the bleed gas so that the solid content of the bleed gas can be recycled as a cement material and that the treated liquid can be discharged in the condition that quantities of the detrimental substances contained in the liquid are reduced to or below the levels of effluent criteria, thus making the effluent dischargeable.

SOLUTION: This treatment of dust in bleed gas from a baking furnace in the cement manufacturing plant which bleeds a part of the exhaust gas of the baking furnace to reduce quantities of chlorine and alkalis in the clinker and treats the dust that contains 25ppm or more quantity of sulfur (S) entrained as sulfides by the bleed gas comprises adding water to the bleed dust to make it slurry, separating the slurry into solid and liquid phases, adjusting the pH value of the obtained liquid phase to 8.5-11.0, precipitating detrimental substances dissolved in the liquid, and separating the precipitation from the liquid again. When the pH of the liquid phase is adjusted to 8.5-11.0 in order to precipitate detrimental substances, the efficiency of removal of the detrimental substances can be raised by addition of an iron salt.

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